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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/656,629	09/08/2003	Henryk Malak		8113
Henryk Malak	7590 06/05/200	EXAMINER		
8444 High Ridge Road			CHIN, CHRISTOPHER L	
Ellicott City, MD 21043			ART UNIT	PAPER NUMBER
			1641	
			MAIL DATE	DELIVERY MODE
			06/05/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/656,629	MALAK ET AL.		
Office Action Summary	Examiner	Art Unit		
	Christopher L. Chin	1641		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period was a failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  36(a). In no event, however, may a reply be the street of t	N. imely filed n the mailing date of this communication. ED (35 U.S.C. § 133).		
Status	•			
1) Responsive to communication(s) filed on <u>09 M</u> .  2a) This action is <b>FINAL</b> . 2b) This  3) Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pr			
Disposition of Claims	•			
4) ☐ Claim(s) 1,2,4-6,13,15,17 and 20 is/are pendin 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,2,4-6,13,15,17, and 20 is/are rejected 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.	Xo.		
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct and the contract of the contract	epted or b) objected to by the drawing(s) be held in abeyance. So ion is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applica rity documents have been receiv u (PCT Rule 17.2(a)).	tion No ved in this National Stage		
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)	4) Interview Summar Paper No(s)/Mail [ 5) Notice of Informal	Date		
Paper No(s)/Mail Date 6) Other:				

Application/Control Number: 10/656,629

Art Unit: 1641

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

1. Claims 1-2, 4-6, 13, 15, 17, and 20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 is vague. While applicants have amended the claim to recite the molecule being located with plasmon fields of the nanoparticles, the relationship of the molecule to the nanoparticles is still not clear. Consequently the interaction of the analyte with the composition (molecule and nanoparticles) is also not clear. To which component of the composition is the analyte interacting with? And how is the analyte detected? Claim 1 has been amended to recite monitoring the spectral absorption or emissions from the molecule but is not clear as to how the molecule is effected by the analyte. Essentially, the claim is not clear what this "molecule" is, how the "molecule" is related to the nanoparticles, and to what does the analyte interact with to be detected.

Also, the specification (page 5) suggests that the molecule is specifically a fluorophore. If that is true, then the claim should be amended accordingly. Also, page 5 of the specification indicates that the fluorophore cannot directly contact the nanoparticles because doing so will quench the fluorophore. If the molecule is a fluorophore, its relationship to the nanoparticles needs to be clearly recited as defined in the specification.

## Conclusion

2. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher L. Chin whose telephone number is (571) 272-0815. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached on (571) 272-0823. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Christopher L. Chin Primary Examiner Art Unit 1641

5/28/07